



BT1000

BASS AMPLIFIER





USER'S GUIDE

CRATE *BT1000* Bass Amplifier

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	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<small>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</small>		

	PRECAUCION RIESGO DE CORRIENTAZO NO ABRA	
<small>PRECAUCION: PARA REDUCIR EL RIESGO DE INCENDIOS O DESCARGAS ELECTRICAS, NO PERMITA QUE ESTE APARATO QUEDE EXPUESTO A LA LLUVIA O LA HUMEDAD. PARA DISMINUIR EL RIESGO DE CORRIENTAZO, NO ABRA LA CUBIERTA. NO HAY PIEZAS ADENTRO QUE EL USUARIO PUEDA REPARAR DEJE TODO MANTENIMIENTO A LOS TECNICOS CALIFICADOS.</small>		

	ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR	
<small>ATTENTION: PROTEGEZ CET APPAREIL DE LA PLUIE ET DE L'HUMIDITE AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION. POUR REDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPARABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.</small>		

IMPORTANT SAFETY INSTRUCTIONS

- READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS.
- DO NOT OPERATE NEAR ANY HEAT SOURCE AND DO NOT BLOCK ANY VENTILATION OPENINGS ON THIS APPARATUS. FOR PROPER OPERATION, THIS UNIT REQUIRES 3" (75mm) OF WELL VENTILATED SPACE AROUND HEATSINKS AND OTHER AIR FLOW PROVISIONS IN THE CABINET.
- DO NOT USE THIS APPARATUS NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS.
- CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS.
- ONLY CONNECT POWER CORD TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE REAR PANEL OF THE APPARATUS.
- PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED, OR STRAINED.
- UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
- ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY.
- WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK OR FIRE, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
- SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL.
- OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.



EXPLANATION OF GRAPHICAL SYMBOLS:

EXPLICACION DE SIMBOLOS GRAFICOS:

EXPLICATION DES SYMBOLES GRAPHIQUES:



= "DANGEROUS VOLTAGE"
"VOLTAJE PELIGROSO"
"DANGER HAUTE TENSION"



= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL"
"ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES."
"REFERREZ-VOUS AU MANUAL D'UTILISATION"

CRATE *BT1000* Bass Amplifier

Congratulations!

You are now the proud owner of the Crate BT1000 Bass Amplifier. The BT1000 features a clean channel with a four-band rotary EQ and a footswitch-controllable Expander circuit for quick tone changes. An active electronic tuner, conveniently located on top of the amplifier, allows you to get in tune and stay in tune "on the fly." The Mute switch allows you to tune in silence without changing the amp's Level controls. The headphone jack allows for private practice sessions. A built-in Limiter keeps your sound clean even at full output power levels, an effects loop is provided for adding your favorite effects, and the balanced XLR jack with volume control lets you run your signal to the house mixing board or a recording console.

Like all Crate products, your BT1000 is designed by musicians and built using only the best components. Extensive testing at the hands (and ears) of skilled technicians and musicians insures you that this amplifier is the absolute best it can be.

In order to get the most out of your new bass amp, we urge you to check out the information in this guide before you begin playing.

And **thank you** for choosing Crate.

Declaration of Conformity

Manufacturer's Name: SLM Electronics
Corporate Headquarters: 1901 Congressional Drive, St. Louis, Missouri 63146
Primary Production Facility: 700 Hwy 202 W, Yellville, Arkansas, 72687

Product Type: Audio Amplifier

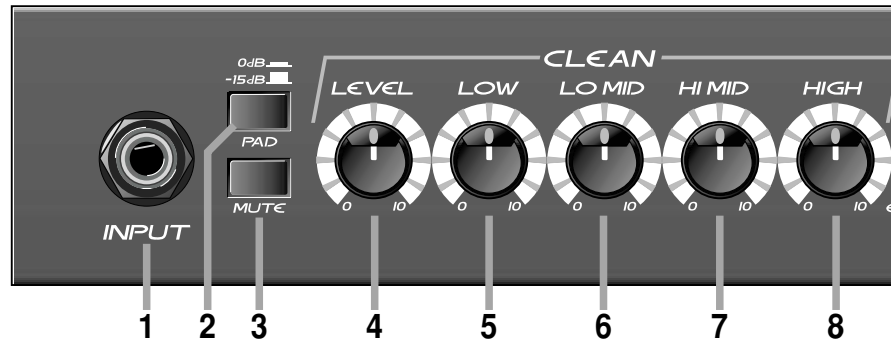
Products meet the regulations for compliance marking under:

ETL standards UL6500 of UL813
CSA standards E60065 or C22.2 No.1-M90
CE safety standard EN60065
CE EMC standards EN55103 or EN55013 and EN61000
FCC standards 47CFR 15.107 and 15.109 Class B
C-tick designation Level 2, ABN #56748810738, ARBN# N222
KETI standard K60065 (limited model approval)

Compliance Support Contact: SLM Electronics, Attn: R&D Compliance Engineer
1901 Congressional Drive, St Louis, Missouri, 63146 • Tel.: 314-569-0141, Fax: 314-569-0175

CRATE **BT1000** Bass Amplifier

The Front Panel:



1. **INPUT:** Use this 1/4" jack to connect your bass to the amplifier by means of a shielded instrument cable.

2. **0dB/-15dB:** Use this switch to match the output signal level of your instrument to the amplifier. If your instrument has standard pickups, setting the switch to the 0dB position (switch in the out position) should yield the best results. If your bass has active electronics or high output pickups, set the switch to the -15dB position (switch depressed).

3. **MUTE:** This switch, when depressed, interrupts the signal prior to the power amplifier, allowing you to tune your instrument in silence.

4. **LEVEL:** Use this control to adjust the output level of the Clean channel.

5. **LOW:** Use this control to adjust the low frequency output of the Clean channel.

6. **LO MID:** Use this control to adjust the lower-midrange frequency output of the Clean channel.

7. **HIGH MID:** Use this control to adjust the upper-midrange frequency output of the Clean channel.

8. **HIGH:** Use this control to adjust the high frequency output of the Clean channel.

9. **EXPANDER:** This switch, when depressed, activates the Expander circuit.

10. **(LED):** This LED illuminates when the Expander circuit is active.

11. **V:** Use this control to adjust the depth of the Expander circuit. As you rotate this control counter clockwise the signal becomes increasingly crisper and cleaner; clockwise makes the signal more punchy.

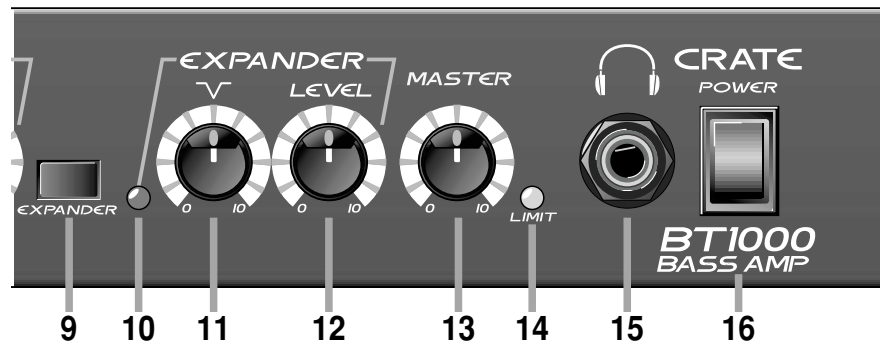
12. **LEVEL:** Use this control to adjust the level of the Expander circuit. This allows you to have two different playing levels - one with the Expander on, another with it off.

13. **MASTER:** Use this control to adjust the overall output level of the amplifier.

14. **LIMIT LED:** This LED illuminates when the internal limiting circuit is active. Occasional flashing during playing is normal. If the Limit LED remains illuminated, reduce the output level of the amplifier until the LED flashes.

15. **Headphone Jack:** Use this jack to listen to the amplifier through a pair of stereo headphones. The internal speaker is disconnected when the headphones jack is used. **To avoid possible damage to your hearing, do not use headphones for extended periods of time at extremely loud listening levels.**

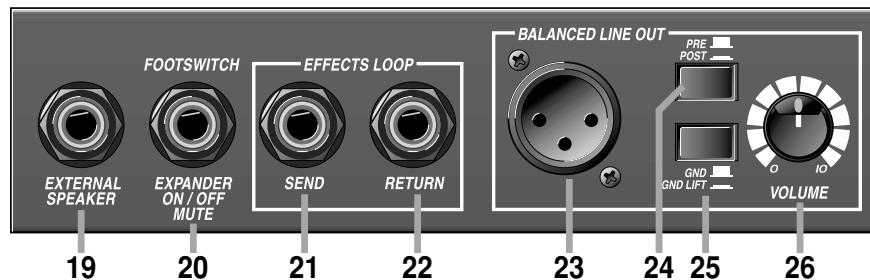
CRATE *BT1000* Bass Amplifier



16. POWER: Use this switch to turn the amplifier on and off. The switch illuminates when the amplifier is on.

17. ELECTRONIC TUNER (top panel, not shown): The electronic tuner is active whenever the amplifier is turned on, providing constant, “real-time” tuning. The bottom row of LEDs indicate which note (string) is being tuned. The top row of LEDs provides directional queues to facilitate quick and precise tuning of your instrument. The indicated note (string) is properly tuned when only the center LED is illuminated.

The Rear Panel:



18. AC LINE CORD (not shown): The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power, and frequency requirements stated on the rear panel. Do not attempt to defeat the safety ground connection.

19. EXTERNAL SPEAKER: Use this jack to connect the amplifier to an external speaker cabinet. This jack is wired in series with the internal speaker, which remains active when this jack is used. A 4 ohm external speaker cabinet is recommended.

20. EXPANDER ON/OFF MUTE FOOTSWITCH: Connect a two-button footswitch (such as the Crate CFS-2) here for remote control of the Expander and the Mute function.

21. EFFECTS LOOP SEND: Use this jack to connect an external signal processor to the amplifier by means of a shielded signal cable. Connect the other end of this cable to the input jack of the external processor.

22. EFFECTS LOOP RETURN: Use this jack to connect an external signal processor to the amplifier by means of a shielded signal cable. Connect the other end of this cable to the output jack of the external processor.

23. BALANCED LINE OUT: Use this XLR jack to send a balanced line level signal to an external power amplifier, mixing board, or recording console.

24. PRE/POST: Use this switch to determine whether the Balanced Line Out signal is Post-EQ (switch depressed) or Pre-EQ (switch in the out position).

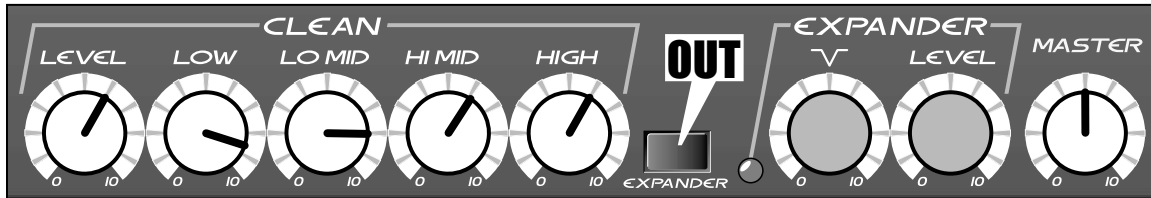
25. GROUND LIFT: This switch, when depressed, lifts the ground connection at the Balanced Line Out jack (#23). This may help reduce hum in the Balanced Line Out signal.

26. VOLUME: Use this control to adjust the signal level at the Balanced Line Out jack (#23).

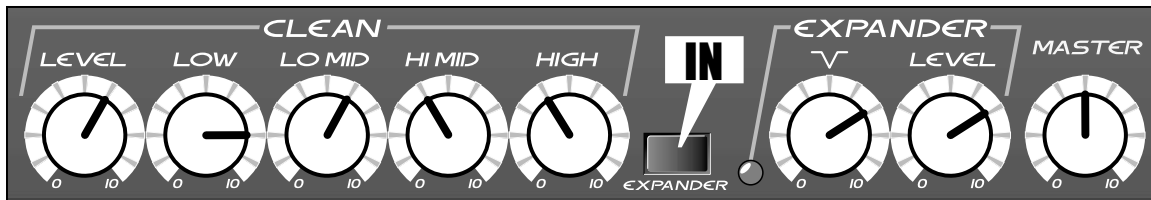
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Suggested Settings:

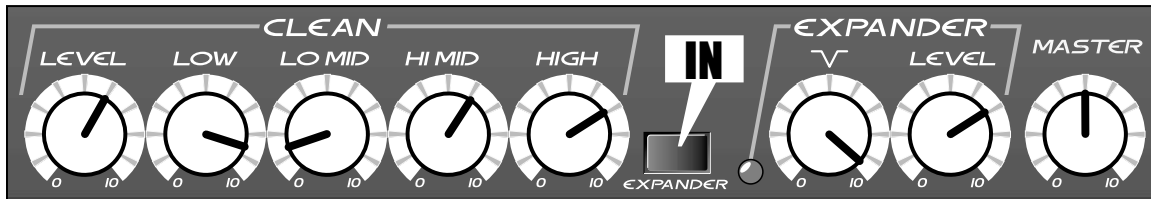
Rock:



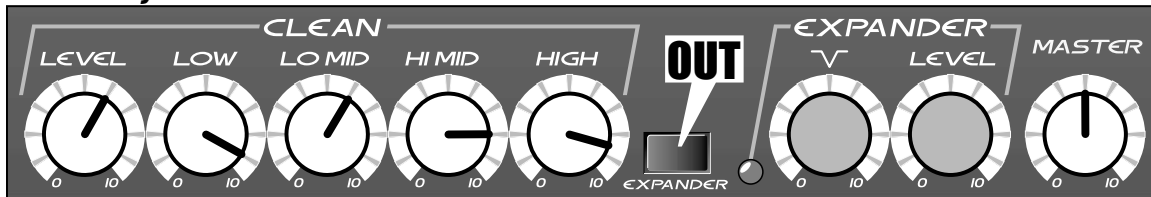
Jazz:



Funk:

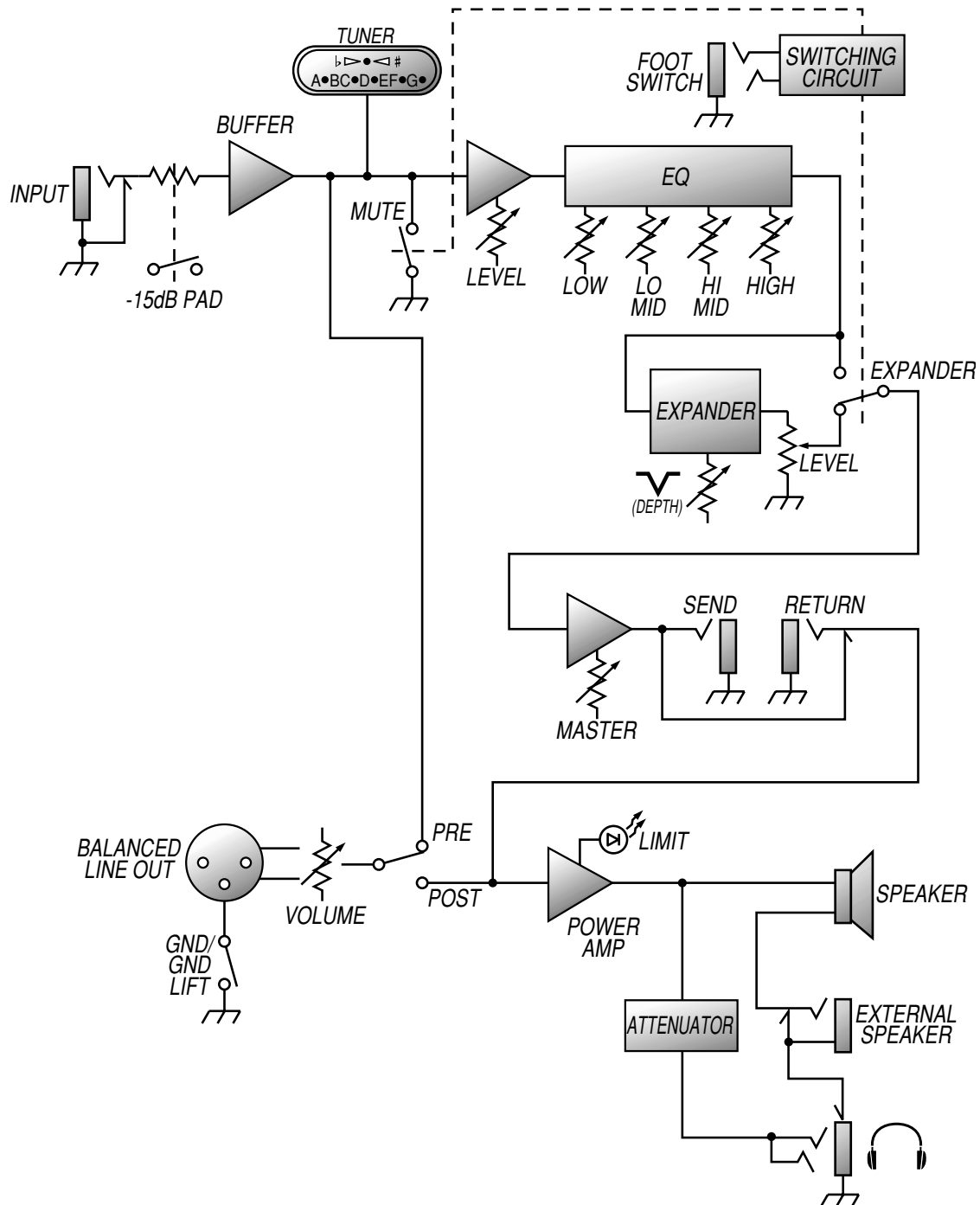


Country:



CRATE *BT1000* Bass Amplifier

System Block Diagram:



CRATE *BT1000* Bass Amplifier

BT1000 TECHNICAL SPECIFICATIONS:

Output Power Rating	100W RMS 2% THD, 4Ω, 120 VAC	
Gain	Clean Channel	56dB
	Expander	62dB
Tone Range	Low	20dB @ 50Hz
	Lo Mid	24dB @ 150Hz
	Hi Mid	18dB @ 1kHz
	High	32dB @ 10kHz
	Expander	22dB @ 330Hz
Signal To Noise Ratio	65dB below full power, tones flat, gain and level @ "10"	
Maximum Input Signal Level Accepted	15 volts peak-to-peak	
Balanced Line Out Jack	2 volts peak-to-peak @ full rated power w/600 ohm load	
Internal Speaker	Size	12"
	Type	Crate Custom
	Magnet	28.5 oz
	Voice Coil	1.5"
	RMS Rating	100 watts
	Impedance	4 ohms
Input Power Requirements	120 VAC, 60Hz, 115VA	
	100/115VAC, 50/60Hz, 115VA	
	230VAC, 50/60Hz, 115VA	
Size	19-1/4" H x 15" W x 16" D	
Weight	53 lbs	

Specifications subject to change without notice



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